

REMARKS

I. Amendments to Specification and Status of Claims

The above amendments made to the specification are to correct minor errors concerning correlation between the figures and the references numerals used therein. The amendments have not added new matter and are provided solely for clarity.

Claims 1-21 are pending. Claims 1 and 13 are independent. The claims 1 and 13 have been amended herein.

II. Rejection of Claims 1, 2, 4-14 and 16-21 as Anticipated Under 35 U.S.C. §102(e) by US 2002/0153952 to Louis et al.

The Examiner has rejected claims 1, 2, 4-14 and 16-21 as anticipated under 35 U.S.C. §102(e) by US 2002/0153952 to Louis et al. (hereinafter "*Louis et al*"). Because *Louis et al* does not disclose, teach or suggest the elements of the present claims, Applicant respectfully requests that the rejection be withdrawn.

The present invention improves the efficiency of a power amplifier without increasing a signal error rate, the signal having a large peak-to-average power ratio (PAR). By contrast, *Louis et al* discloses compensating signal distortion after amplifying in order to overcome nonlinear characteristics. Thus, the objects of the present invention and the cited reference are different from each other.

The main amplifier part recited in independent claim 1 clips a peak signal, which has a predetermined enveloped value or higher, to generate a reduced signal, and then amplifies only the reduced signal. The reduced signal is clipped to the predetermined envelope value or less. As is further recited claim 1, an error signal indicates a difference between the baseband signal and the reduced signal. By contrast, the main signal path of *Louis et al* amplifies the original signal.

In the Office Action, the Examiner apparently analogizes the recitation of "error signal" in claim 1 with a "distortion signal", which is incorrect since they are different from each other. The error signal recited in claim 1 indicates a difference between the baseband signal and the peak reduced signal. *Louis et al* fails to disclose dividing a signal into two signals. *Louis et al* only discloses processing a distortion signal.

In addition, an error correction amplification part recited in independent claim 1 receives the error signal outputted from the recited main amplification part, and then separately amplifies the error signal, which indicates a difference between the baseband signal and the peak reduced signal. The feed-forward correction circuit of *Louis et al* indicated by the Examiner calculates a distortion signal introduced by amplifying of the main signal path, generates signal for compensation, and provides the signal to the main signal path (refer to step 304 in Fig 3). In other words, *Louis et al* relates to generating a signal for compensating a distortion signal. Thus, *Louis et al* fails to disclose amplifying the error signal, which indicates a difference between the baseband signal and the peak reduced signal.

Finally, the recited summing part in claim 1 combines the signals respectively amplified by the main amplification part and the error correction amplification part, such that the restored original signal is amplified. However, the signal coupler of *Louis et al* compensates for a signal only, but fails to disclose restoring an original signal by combining divided signals, as the claimed invention does.

Accordingly, independent claim 1 and its dependent claims 2-12 are not anticipated by *Louis et al*. Since independent claim 13 recites the above-referenced inventive aspects of the present invention in method format, claim 13 and its corresponding dependent claims 14-21 are also not anticipated by *Louis et al* for the above reasons.

III. Rejection of Claims 3 and 15 Under 35 U.S.C. §103(a) as Being Unpatentable Over US 2002/0153952 to Louis et al. in view of US 6,034,573 to Alderton

Claims 3 and 15, dependent on claims 1 and 13 respectively, have been rejected under U.S.C. §103(a) as being unpatentable over Louis in view of US 6,034,573 to Alderton (hereinafter "*Alderton*"). Because Alderton does not cure the myriad deficiencies of *Louis et al* as discussed above, claims 3 and 15 are similarly allowable at least for the reasons as outlined above. As such, it is respectfully requested that the obviousness rejection be withdrawn and the claims passed to allowance.

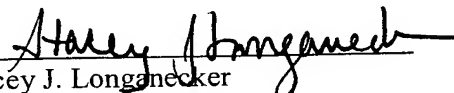
Appl. No. 10/714,937
Amdt. dated January 8, 2007
Reply to Office Action of August 9, 2006

IV. Conclusion

In view of the above, it is believed that the above-identified application is in condition for allowance, and notice to that effect is respectfully requested. Should the Examiner have any questions, the Examiner is encouraged to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

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